BIOGRAPHICAL SKETCH

NAME: Marina Evans **POSITION TITLE:** Biomedical Engineer

EDUCATION/TRAINING

Institution	Degree	Year	Field of Study
University of Virginia	B.S.	1980	Engineering Science
University of Virginia	M.S.	1981	Biomed Engineering
University of Virginia	Ph.D.	1987	Biomed Engineering

PROFESSIONAL EXPERIENCE:

1993 - present	Biomedical Engineer at the US EPA in RTP , NC.
1991-1993	Postdoctoral Fellow - Center for Environmental Medicine and Lung Biology at UNC, Chapel Hill, NC.
1989-1990	Research Analyst - Reproductive Hormone Lab, Duke University.
1988-1989	Research Associate - Neurobiology Dept., Duke University.
1986	Instructor - UNC Charlotte, Dept. of Electrical Engineering.

PROFESSIONAL SOCIETIES:
Councilor, Biological Modeling Specialty Section (SOT) (2002 – 2004)
Biomedical Engineering Society (1997 – present)
Society of Toxicology (1993 – present)
Tau Beta Pi Engineering Honorary Society (1980 – present)

SELECTED AWARDS AND HONORS:
STAA Awards for 1994, 1998 and 2000.
NHEERL Award for Outstanding Work in 2002.

INVITED LECTURES/SYMPOSIA:
Regular presenter at SOT's Annual Meetings since 1994.
Attended the Benzene State of the Science Workshop (1998)
Invited guest lecturer for PBPK modeling at UNC for Toxicoloy course (1998 – 1999)
Speaker at Bioengineering Conference in Montana (1999)
Sensitivity analysis seminar at NC State (1999)

ASSISTANCE/LEADERSHIP PROVIDED TO THE SCIENTIFIC COMMUNITY:
Co-founder of the Biological Modeling Specialty Section (BMSS) for SOT.
Serving as Councilor in BMSS for three years.

ASSISTANCE/LEADERSHIP PROVIDED TO THE AGENCY:
Member of malathion workgroup for application of PBPK to risk assessment.
Member of carbamate workgroup for cumulative risk assessment.
Member of pyrethroid workgroup for cumulative risk assessment.

PUBLICATIONS (From January 1, 1998 to present):
1. Smith, A.E., EVANS, M.V., and Davidian,M. (1998). Statistical properties of fitted estimates of apparent in vivo metabolic constants obtained from gas uptake data. I. Lipophilic and slowly metabolized VOCs. *Inhalation Toxicology*. 10**:**383-409.
2. Delp, M.D., EVANS, M.V.,and Duan,C.P. (1998). Effects of aging on cardiac output, regional blood flow, and body composition in Fischer-344 rats. *Journal of Applied Physiology.* 85:1813-1822.

3. EVANS, M.V., and Andersen, M.E. (2000). Sensitivity analysis of a physiological model for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD): Assessing the impact of specific model parameters on sequestration in liver and fat in the rat. *Toxicological Sciences*.54:71-80.
4. Boyes, W.K., Bushnell, P.J., Crofton, K.M., EVANS, M.V., and Simmons, J.E. (2000). Neurotoxic and Pharmacokinetic responses to trichloroethylene as a function of exposure scenario. *Environmental Health Perspectives*. 108:317-322.
5. Easterling, M.R., EVANS, M.V., and Kenyon, E.M. (2000). Comparative analysis of software for physiologically based pharmacokinetic modeling: simulation, optimisation and sensitivity analysis. *Toxicology Methods*. 10:203-229.
6. Kenyon, E.M., Fea, M., and EVANS, M.V. (2001). Application of modeling techniques to the planning of in vitro arsenic pharmacokinetic studies. *Alternative to Laboratory Animals*. 29:15-33.
7. EVANS, M.V. and Eklund, C.R. (2001). A graphical application of sensitivity analysis for gas uptake experiments using chloroform as an example. *Toxicology Methods*. 11:1-13.
8. EVANS, M.V., Boyes, W.K., Simmons, J.E., Litton, D.K., and Easterling, M.R. (2002). A comparison of Haber's rule at different ages using a physiologically based pharmacokinetic (PBPK) model for chloroform in rats. *Toxicology*. 176:11-23.
9. Albanese, R.A., Banks, H.T., EVANS, M.V., and Potter, L.K. (2002). Physiologically based pharmacokinetic models for the transport of trichloroethylene in adipose tissue. *Bulletin of Mathematical Biology*. 64:97-131.
10. Simmons, J.E., Boyes, W.K., Bushnell, P.J., Raymer, J.H., Limsakun, T., McDonald, A., Sey, Y.M., and EVANS, M.V. (2002). A physiologically-based pharmacokinetic model for trichloroethylene in the Long Evans rat. *Toxicological Sciences.* 69:3-15.
11. Easterling, M.R., EVANS, M.V., and Kenyon, E.M. (2002). Pharmacokinetic modeling of arsenite uptake and metabolism in hepatocytes – Mechanistic insights and implications for further experiments. *J Pharmacokinetics and Pharmacodynamics*. 29:207-234.
12. Tornero-Velez, R., Ross, M.K., Granville, C., Laskey, J., DeMarini, D.M., and EVANS, M.V. (2003). Metabolism and Mutagenicity of Source Water Contaminants 1,3-dichloropropane and 2,2-dichloropropane. Submitted to Internal Review.
13. Isaacs, K.K., EVANS, M.V., and Harris, T.R. (2003). Visualization-based analysis for a mixed inhibition binary PBPK model: Determination of inhibition mechanism. Submitted to Internal Review.